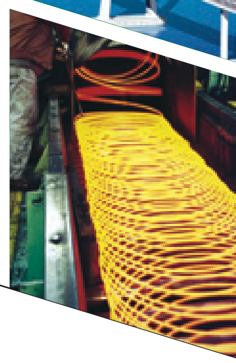
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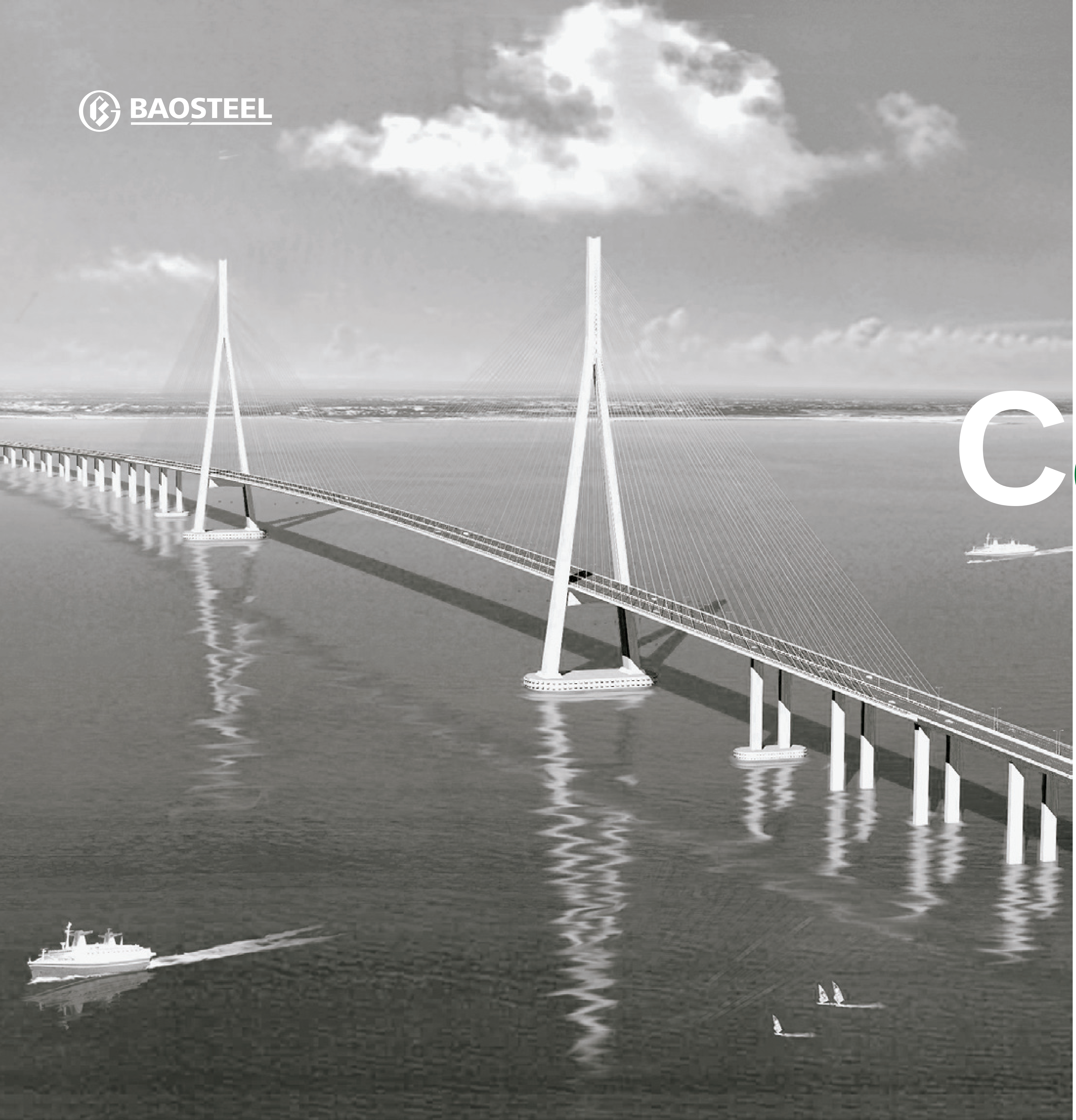
Wire Rod
线 材





Wire Rod Catalogue
线材产品手册

BAOSTEEL



Contents

线材简介

宝钢股份宝钢分公司高速线材轧机于1999年3月投产，目前年生产量约57万吨。产品规ø5.0-ø26.0mm。主要品种有帘线钢、弹簧钢、冷镦钢、桥梁缆索用镀锌钢丝、高碳钢和焊接用钢等。

线材原料采用高炉铁水和优质废钢，经过转炉或电炉及精炼工序的纯净钢冶炼技术生产，确保钢质纯净。钢坯精整线对钢坯表面存在缺陷进行清理，确保钢坯表面质量。随着2008年5月电炉大方坯连铸投产，线材原料水平得到大幅度改善，将进一步提升线材实物质量。

线材生产线的主要设备从美国摩根公司引进，单线无扭连续生产，最大轧制速度为120m/s。采用控制轧制和控制冷却工艺，通过对冷却水箱水量和斯太尔摩线冷却速度的控制可获得产品所期望的组织和性能。为保证产品表面质量和尺寸精度，在精轧机组和减定径机组后分别设置了影像探伤仪和测径仪，产品尺寸精度可达 0.1mm。

宝钢分公司质量管理采用一贯质量管理方式，对产品系列从原料入厂直至产品出厂进行以质量为中心的全过程最优化控制，并借助先进的质量控制方法不断改进产品质量。

宝钢分公司生产的汽车用帘线钢、弹簧钢、冷镦钢以及桥梁缆索用镀锌钢丝在国内知名企业和重大工程中广泛获得应用，多次获得上海市和国家科技进步奖。











Introduction to Wire Rod

The high-speed wire rod mill of Baosteel Branch (the largest branch of Baosteel Co., Ltd) began production in March 1999 and rolls plain rod from 5.0mm to 26mm with production capacity of up to 570,000 tonnes per year. The major products involve wire rod for tire cord, spring steel wire rod, steel wire rod for cold heading and cold forging, galvanized wire for bridge cables, high carbon steel wire rod, wire rod for welding, etc.

Raw materials for wire rod include blast furnace hot metal and high quality scraps. Refining processes after BOF or EAF ensures the cleanliness of steel. The flaws are cleaned up on the billet conditioning line in order to obtain high surface quality. With the commissioning of new continuous bloom casting process in May 2008, the practical quality could be further upgraded due to the great improvement of the raw materials for wire rod.

The main rolling equipments of mill are supplied by Morgan Construction Company and the rolling line is single-strand with maximum finishing speed of 120 meters per second. Perfect microstructures and mechanic properties are gained through controlling water boxes and Stelmor Cooling System. In order to ensure accurate diameter with a tolerance of +/-0.1mm and high surface quality, one HotEye flaw detector and two ORBIS diameter gauges are located after the No-Twist Finishing Mill and Reducing/Sizing Mill.

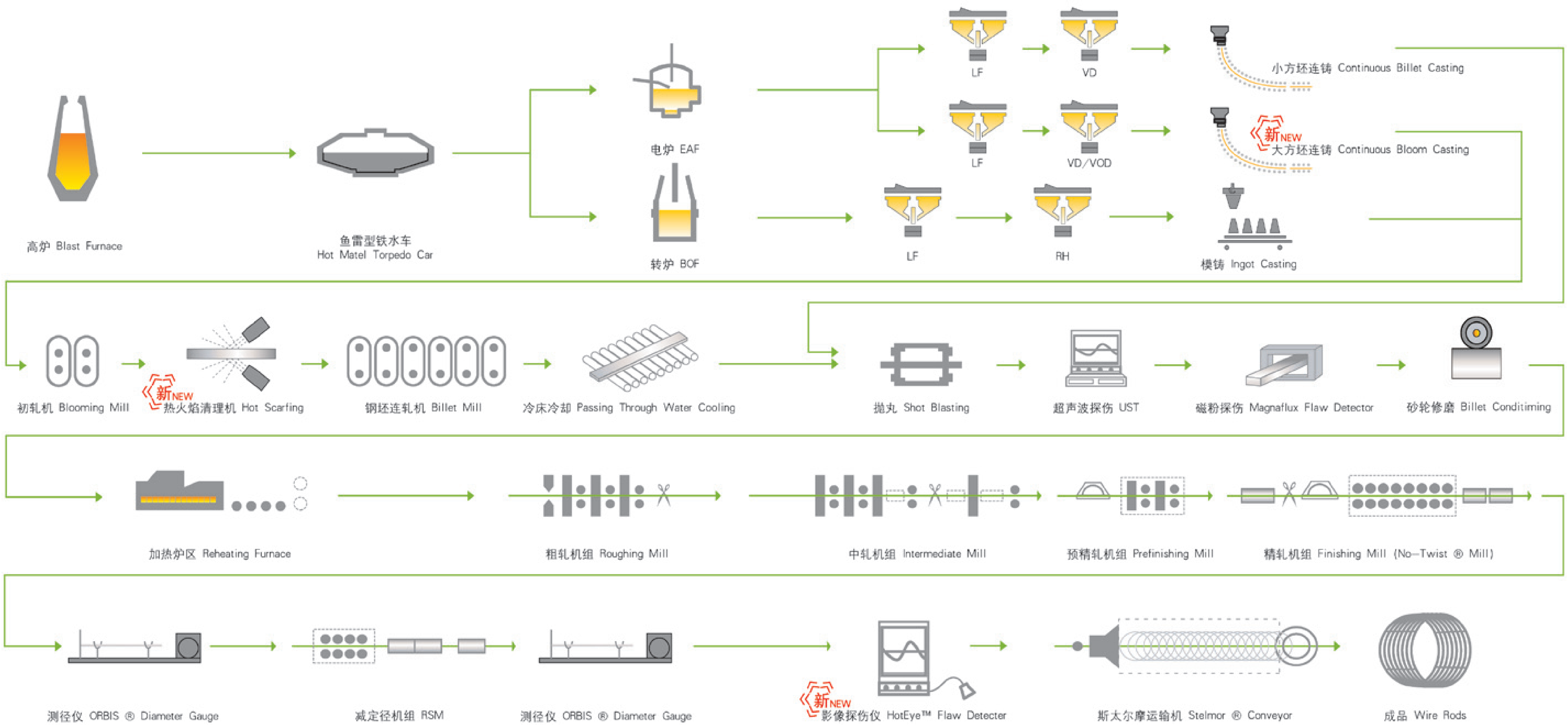
Integrating Quality Control is applied throughout the entire manufacturing processes from the handling of raw materials to the delivery of finished products to guarantee full customer satisfaction. At each stage of production from steelmaking to rolling of wire rod, improvements of product quality are ensured.

Top quailty wire rod products manufactured are put into use widely in many well-known domestic enterprises and local key projects. These products have also won lots of honors in Shanghai as well as numerous national science and technology progress awards were given to the company in honor of these products.

Process Flowchart

生产工艺流程图





Available Steel Grades
产品牌号

1.1、焊接用钢盘条（Q/BQB 511）Wire Rod for Core Wire of Covered Electrodes (Q/BQB 511)

牌号 Grade	化学成份（成品）% Chemical Composition (Finished Product) %					
	C	Si	Mn	P	S	其它 Others
SWRY11	≤0.09	≤0.03	0.35-0.65	≤0.020	≤0.023	Cu:≤0.20
ER70S-6	0.06-0.15	0.80-1.15	1.40-1.85	≤0.025	≤0.035	
H10Mn2	≤0.12	≤0.05	1.50-1.90	≤0.035	≤0.035	
BH10Mn2G	≤0.17	≤0.05	1.80-2.20	≤0.030	≤0.030	Ni:≤0.30，Cr:≤0.20
H08MnA	≤0.10	≤0.05	0.80-1.10	≤0.030	≤0.030	
H08Mn2SiA	≤0.11	0.70-0.95	1.80-2.10	≤0.030	≤0.030	
BH08MnMoTiB	≤0.11	≤0.25	1.40-1.60	≤0.030	≤0.030	Mo:0.30-0.60，Ti:0.03-0.08 B:0.004-0.008
BH08Mn2E	≤0.10	≤0.07	1.50-1.90	≤0.025	≤0.020	Ni:≤0.25，Cu:≤0.20，Cr:≤0.20
BH08MnNiA	≤0.10	0.35-0.60	1.20-1.60	≤0.025	≤0.025	Cu:≤0.20，Cr:≤0.20 Ni:0.30-0.60
H08MnSiCuCrNi	≤0.10	0.35-0.65	0.90-1.30	≤0.025	≤0.025	Cu、Cr、Ni:0.20-0.50

1.2、焊接用钢盘条（协议）Wire Rod for Core Wire of Covered Electrodes (Agreement)

牌号 Grade	化学成份（成品）% Chemical Composition (Finished Product) %					
	C	Si	Mn	P	S	其它 Others
ER70S-G	≤0.10	0.65-0.85	1.40-1.60	≤0.025	0.008-0.020	Ti:0.08-0.25，Cu:≤0.10，TAl:≤0.10
BH550NQ-II	≤0.10	≤0.60	1.2-1.60	≤0.025	≤0.020	Cu:0.10-0.40，Cr:0.40-0.80 Ni:0.20-0.60，Ti:0.035-0.080
BH600-II	≤0.10	≤0.70	1.30-1.60	≤0.020	≤0.012	Ni:0.20-0.38，Mo:0.20-0.38 Ti:0.05-0.12，Cu:≤0.12 Cr:≤0.12，TAL:≤0.020
BH700-II	≤0.11	≤0.70	1.50-1.80	≤0.020	≤0.012	Ni:0.60-0.90，Mo:0.20-0.38 Ti:0.08-0.16，Cu:≤0.12 Cr:0.10-0.30，TAL:≤0.020
BH500J-III	0.08-0.15	≤0.20	1.80-2.20	≤0.020	≤0.012	Ni:0.08-0.25
BH500NHY3-III	≤0.11	≤0.25	1.20-1.50	≤0.020	≤0.012	Ni:0.28-0.46，Mo:0.10-0.30 Ti:0.02-0.08，Cu:0.05-0.20 Cr:0.66-0.90，TAL:≤0.020
ER55-D2-Ti	0.05-0.10	0.40-0.80	1.20-1.60	≤0.025	≤0.025	Ti:0.05-0.15，Mo:0.20-0.35 Cu:≤0.20
BH70GX-III	0.06-0.10	0.15-0.35	1.50-1.70	≤0.015	≤0.005	Ti:≥0.081，B:35-65 ppm Cu:≤0.10，Mo:0.30-0.40 N:≤80 ppm
ER80S-B2	≤0.12	0.60-0.90	1.00-1.50	≤0.025	≤0.020	Mo:0.45-0.65，Cr:1.00-1.20 Ni:≤0.25，Cu:≤0.15
ER69-3	≤0.12	0.40-0.80	1.25-1.80	≤0.020	≤0.020	Mo:0.20-0.55，Ti:≤0.20 Ni:0.60-1.10，TAl:≤0.10，Cu:≤0.35
BH08Mn2SiTiB	≤0.10	0.55-1.10	1.65-1.95	≤0.025	≤0.009	Cu:≤0.10，N:≤80 ppm Ti:0.08-0.18，B:0.0035-0.0060

2、低碳钢盘条（Q/BQB 513）Low Carbon Steel Wire Rod (Q/BQB 513)

牌号 Grade	化学成份% Chemical Composition %				
	C	Si	Mn	P	S
SWRM6	≤0.08	≤0.03	≤0.60	≤0.035	≤0.035
SWRM6-1*	≤0.06	≤0.03	≤0.60	≤0.035	≤0.035
SWRM8	≤0.10	≤0.03	≤0.60	≤0.035	≤0.035
SWRM10	0.08-0.13	≤0.03	0.30-0.60	≤0.035	≤0.035
SWRM12	0.10-0.15	≤0.03	0.30-0.60	≤0.035	≤0.035
SWRM15	0.13-0.18	≤0.03	0.30-0.60	≤0.035	≤0.035
SWRM17	0.15-0.20	≤0.03	0.30-0.60	≤0.035	≤0.035
SWRM20	0.18-0.23	≤0.03	0.30-0.60	≤0.035	≤0.035

注 Notes：＊按照协议供货

＊According to the technial agreement reached by the Sellers and the Buyers。

3.1、高碳钢盘条（Q/BQB 512）High Carbon Steel Wire Rod (Q/BQB 512)

牌号 Grade	化学成份% Chemical Composition %				
	C	Si	Mn	P	S
SWRH32	0.29-0.36	0.15-0.35	0.30-0.60	≤0.030	≤0.030
SWRH42A	0.39-0.46	0.15-0.35	0.30-0.60	≤0.030	≤0.030
SWRH42B	0.39-0.46	0.15-0.35	0.60-0.90	≤0.030	≤0.030
SWRH47A	0.44-0.51	0.15-0.35	0.30-0.60	≤0.030	≤0.030
SWRH47B	0.44-0.51	0.15-0.35	0.60-0.90	≤0.030	≤0.030
SWRH52A	0.49-0.56	0.15-0.35	0.30-0.60	≤0.030	≤0.030
SWRH52B	0.49-0.56	0.15-0.35	0.60-0.90	≤0.030	≤0.030
SWRH57A	0.54-0.61	0.15-0.35	0.30-0.60	≤0.030	≤0.030
SWRH57B	0.54-0.61	0.15-0.35	0.60-0.90	≤0.030	≤0.030
SWRH62A	0.59-0.66	0.15-0.35	0.30-0.60	≤0.030	≤0.030
SWRH62B	0.59-0.66	0.15-0.35	0.60-0.90	≤0.030	≤0.030

3.2、高碳钢盘条（Q/BQB 512）High Carbon Steel Wire Rod (Q/BQB 512)

牌号 Grade	化学成份% Chemical Composition %				
	C	Si	Mn	P	S
SWRH67A	0.64-0.71	0.15-0.35	0.30-0.60	≤0.030	≤0.030
SWRH67B	0.64-0.71	0.15-0.35	0.60-0.90	≤0.030	≤0.030
SWRH72A	0.69-0.76	0.15-0.35	0.30-0.60	≤0.030	≤0.030
SWRH72B	0.69-0.76	0.15-0.35	0.60-0.90	≤0.030	≤0.030
SWRH77A	0.74-0.81	0.15-0.35	0.30-0.60	≤0.030	≤0.030
SWRH77B	0.74-0.81	0.15-0.35	0.60-0.90	≤0.030	≤0.030
SWRH82A	0.79-0.86	0.15-0.35	0.30-0.60	≤0.030	≤0.030
SWRH82B	0.79-0.86	0.15-0.35	0.60-0.90	≤0.030	≤0.030
SWRH90A*	0.87-0.92	0.15-0.35	0.30-0.60	≤0.025	≤0.025

注 Notes：＊按照协议供货
＊According to the technial agreement reached by the Sellers and the Buyers.

4、针布钢丝盘条（BZJ 570）Wire Rod for Card Clothing (BZJ 570)

牌号 Grade	化学成份% Chemical Composition %							
	C	Si	Mn	P	S	Cr	V	Nb
B72BNbV	0.69-0.74	0.15-0.25	0.50-0.70	≤0.025	≤0.025	0.20-0.40	0.08-0.15	0.04-0.08

5、预应力钢丝钢绞线盘条（Q/BQB 514）Wire Rod for PC Strands (Q/BQB 514)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
SWRH82B-1	0.79-0.86	0.15-0.35	0.60-0.90	≤0.025	≤0.025	Cr:0.13-0.22
SWRH82B-2	0.79-0.86	0.15-0.35	0.60-0.90	≤0.025	≤0.025	Cr:0.13-0.23 V:0.04-0.09

6、钢纤维盘条（Q/BQB 518）Wire Rod for Steel Fiber (Q/BQB 518)

牌号 Grade	化学成份% Chemical Composition %								
	C	Si	Mn	P	S	Cu	Cr	Ni	Al	N
B04XW	≤0.06	≤0.05	0.20-0.50	≤0.035	≤0.035	≤0.10	≤0.10	≤0.10	≤0.04	≤80 ppm

7、预应力钢棒盘条（Q/BQB 515）Wire Rod for Prestressed Steel Bars (Q/BQB 515)

牌号 Grade	化学成份% Chemical Composition %						
	C	Si	Mn	P	S	Cu	B
B30MnB	0.27-0.35	0.20-0.50	0.70-1.00	≤0.030	≤0.030	≤0.20	0.0010-0.0050
B30Si2Mn	0.27-0.35	1.55-1.85	0.65-0.95	≤0.030	≤0.030	≤0.20	–
B30MnSi	0.25-0.33	0.60-0.90	0.90-1.30	≤0.030	≤0.030	≤0.20	–

8、合金结构钢盘条（协议）Alloy Steel Wire Rod for Machine Structural Use (Agreement)

牌号 Grade	化学成份% Chemical Composition %						
	C	Si	Mn	Cr	P	S	其它 Others
B20Cr2MoNi	0.17-0.23	0.15-0.30	0.40-0.60	1.80-2.10	≤0.015	≤0.010	Ni:0.15-0.25 Mo:0.15-0.25 Al:0.02-0.05 Cu:≤0.30
20CrMnMo	0.17-0.23	0.17-0.37	0.90-1.20	1.10-1.40	≤0.035	≤0.035	Mo:0.20-0.30 Cu:≤0.30，Ni:≤0.30

9、桥梁缆索镀锌钢丝用盘条（Q/BQB 521）Wire Rod for Bridge Main Cables (Q/BQB 521)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
B82MnQL	0.79-0.86	0.12-0.32	0.60-0.90	≤0.025	≤0.025	Cr:≤0.20，V:≤0.040 Cu:≤0.20
B87MnQL	0.85-0.91	0.12-0.32	0.60-0.90	≤0.025	≤0.025	Cr:0.10-0.25，V:0.02-0.06 Cu:≤0.10

10、钢帘线盘条（协议）Wire Rod for Tire Cord (Agreement)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	P+S
B72LX	0.70-0.76	≤0.30	0.40-0.60	≤0.020	≤0.015	≤0.30
B82LX	0.80-0.85	≤0.30	0.40-0.60	≤0.020	≤0.015	≤0.30

11、弹簧钢盘条（Q/BQB 516）Spring Steel Wire Rod (Q/BQB 516)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
65Mn	0.62-0.70	0.17-0.37	0.90-1.20	≤0.035	≤0.035	Cr:≤0.25，Ni:≤0.25，Cu:≤0.25
60Si2MnA	0.56-0.64	1.60-2.00	0.60-0.90	≤0.030	≤0.030	Cr:≤0.35，Ni:≤0.35，Cu:≤0.25
B55SiCr	0.51-0.59	1.40-1.60	0.60-0.80	≤0.025	≤0.025	Cr:0.60-0.80 Ni:≤0.25，Cu:≤0.20
60Si2CrA	0.56-0.64	1.40-1.80	0.40-0.70	≤0.020	≤0.020	Cr:0.70-1.00
60Si2CrVAT*	0.56-0.64	1.40-1.80	0.40-0.70	≤0.020	≤0.020	Cr:0.90-1.20，V:0.10-0.20 Ni:≤0.35，Cu:≤0.20
50CrVA	0.46-0.54	0.17-0.37	0.50-0.80	≤0.025	≤0.025	Cr:0.80-1.10，V:0.10-0.20 Ni:≤0.25，Cu:≤0.150
B55SiCrV	0.51-0.59	1.20-1.60	0.60-0.80	≤0.025	≤0.025	Cr:0.60-0.80，V:0.15-0.25 Cu:≤0.12

注 Notes：＊按照协议供货

＊According to the technial agreement reached by the Sellers and the Buyers。

12.1、碳素冷镦钢盘条（Q/BQB 517）Carbon Steel Wire Rod for Cold Heading and Cold Forging (Q/BQB 517)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
SWRCH6A	≤0.08	≤0.10	≤0.60	≤0.030	≤0.035	Al_t≥0.02
SWRCH8A	≤0.10	≤0.10	≤0.60	≤0.030	≤0.035	Al_t≥0.02
SWRCH10A	0.08-0.13	≤0.10	0.30-0.60	≤0.030	≤0.035	Al_t≥0.02
SWRCH12A	0.10-0.15	≤0.10	0.30-0.60	≤0.030	≤0.035	Al_t≥0.02
SWRCH15A	0.13-0.18	≤0.10	0.30-0.60	≤0.030	≤0.035	Al_t≥0.02
SWRCH16A	0.13-0.18	≤0.10	0.60-0.90	≤0.030	≤0.035	Al_t≥0.02
SWRCH18A	0.15-0.20	≤0.10	0.60-0.90	≤0.030	≤0.035	Al_t≥0.02
SWRCH19A	0.15-0.20	≤0.10	0.70-1.00	≤0.030	≤0.035	Al_t≥0.02
SWRCH20A	0.18-0.23	≤0.10	0.30-0.60	≤0.030	≤0.035	Al_t≥0.02
SWRCH22A	0.18-0.23	≤0.10	0.70-1.00	≤0.030	≤0.035	Al_t≥0.02
SWRCH35A*	0.32-0.37	0.15-0.35	0.60-0.90	≤0.030	≤0.035	
SWRCH38A*	0.35-0.41	-	0.60-0.90	≤0.030	≤0.030	
SWRCH40A*	0.37-0.43	-	0.60-0.90	≤0.030	≤0.035	
SWRCH45A*	0.42-0.48	-	0.60-0.90	≤0.030	≤0.035	

注 Notes：＊按照协议供货

＊According to the technial agreement reached by the Sellers and the Buyers。

12.2、碳素冷镦钢盘条（Q/BQB 517）Carbon Steel Wire Rod for Cold Heading and Cold Forging (Q/BQB 517)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
SWRCH10K	0.08-0.13	0.10-0.35	0.30-0.60	≤0.030	≤0.035	–
SWRCH15K	0.13-0.18	0.10-0.35	0.30-0.60	≤0.030	≤0.035	–
SWRCH17K*	0.15-0.20	0.10-0.35	0.30-0.60	≤0.030	≤0.035	
SWRCH20K	0.18-0.23	0.10-0.35	0.30-0.60	≤0.030	≤0.035	–
SWRCH25K	0.22-0.28	0.10-0.35	0.30-0.60	≤0.030	≤0.035	–
SWRCH30K	0.27-0.33	0.10-0.35	0.60-0.90	≤0.030	≤0.035	–
SWRCH35K	0.32-0.38	0.10-0.35	0.60-0.90	≤0.030	≤0.035	–
SWRCH38K	0.35-0.41	0.10-0.35	0.60-0.90	≤0.030	≤0.035	–
SWRCH40K	0.37-0.43	0.10-0.35	0.60-0.90	≤0.030	≤0.035	–
SWRCH45K	0.42-0.48	0.10-0.35	0.60-0.90	≤0.030	≤0.035	–
SWRCH50K	0.47-0.53	0.10-0.35	0.60-0.90	≤0.030	≤0.035	–
ML15*	0.13-0.18	≤0.10	0.30-0.60	≤0.030	≤0.035	
ML15Al	0.12-0.19	≤0.07	0.30-0.60	≤0.030	≤0.030	Al_t≥0.02
ML35	0.32-0.38	0.05-0.20	0.30-0.60	≤0.030	≤0.030	

注 Notes：＊按照协议供货
＊According to the technial agreement reached by the Sellers and the Buyers.

12.3、冷镦用超低碳钢盘条（协议）Extra Low Carbon Steel Wire Rod for Cold Forging (Agreement)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
B-CH1T	≤0.010		≤0.35	≤0.030	≤0.035	Ti:≥0.06
B-CH1A	≤0.015		≤0.35	≤0.030	≤0.030	

12.4、低合金冷镦钢盘条（Q/BQB 517）Low Alloy Steel Wire Rod for Cold Heading and Cold Forging (Q/BQB 517)

牌号 Grade	化学成份% Chemical Composition %					
	C	Si	Mn	P	S	其它 Others
ML15MnVB*	0.14-0.19	⩽0.30	1.20-1.60	⩽0.030	⩽0.030	V:0.07-0.12 B:0.005-0.0035
ML20MnVB	0.19-0.24	⩽0.30	1.20-1.60	⩽0.030	⩽0.030	V:0.07-0.12 B:0.0005-0.0035
ML20MnTiB	0.17-0.24	⩽0.30	1.30-1.60	⩽0.030	⩽0.030	Ti:0.04-0.10 B:0.0005-0.0035
10B21	0.18-0.23	⩽0.10	0.70-1.00	⩽0.030	⩽0.035	B:⩾0.005
10B30*	0.28-0.34	0.15-0.35	0.70-1.00	⩽0.030	⩽0.035	B:⩾0.0005
SCM435	0.33-0.38	0.15-0.35	0.60-0.85	⩽0.030	⩽0.030	Cr:0.90-1.20 Mo:0.15-0.30
ML42CrMo*	0.38-0.45	⩽0.30	0.50-0.80	⩽0.030	⩽0.030	Cr:0.90-1.20 Mo:0.15-0.30
50BV30*	0.27-0.33	⩽0.10	0.70-1.00	⩽0.030	⩽0.035	Cr:0.30-0.50 V:0.10-0.50 B:0.0005-0.0040
40ACr*	0.40-0.44	⩽0.10	0.60-0.90	⩽0.030	⩽0.030	Cr:0.30-0.45 Al_t⩾0.01

注 Notes：＊按照协议供货

＊According to the technial agreement reached by the Sellers and the Buyers.

Comparison of Steel Grades
线材相近牌号对照

品名	宝钢企业标准 Q/BQB	中国国家标准或行业标准 GB或YB	日本工业标准 JIS	美国汽车工程师协会 SAE	美国国家标准协会 AISI	美国材料试验协会 ASTM	美国焊接协会 AWS
焊接用钢盘条 Wire Rod for Welding	Q/BQB 511: SWRY11 ER70S-6 H10Mn2 H08MnA H08Mn2SiA	GB/T 3429: H11Mn2SiA H10Mn2 H08MnA H08Mn2SiA	JIS G3503: SWRY11				AWS A5.18: ER70S-6
高碳钢盘条 High Carbon Steel Wire Rod	Q/BQB 512: SWRH32 SWRH42A~SWRH82A SWRH42B~SWRH82B	GB/T 4354: 30~80 40Mn~60Mn	JIS G3506: SWRH32 SWRH42A~SWRH82A SWRH42B~SWRH82B	1030~1080	1030~1080	ASTM A 510	
低碳钢盘条 Low Carbon Steel Wire Rod	Q/BQB 513: SWRM6~SWRM20	GB/T 701: Q195~Q235C	JIS G3505: SWRM6~SWRM20	1005~1020	1005~1020	ASTM A 510	
弹簧钢盘条 Spring Steel Wine Rod	Q/BQB 516: 60Si2CrA 60Si2MnA B55SiCr 65Mn	GB/T 1222: 60Si2CrA 60Si2MnA YB/T5365:55SiCrA GB/T 1222:65Mn	JIS G4801: SUP6 SUP12	9260 9254	9260 9254	ASTM A 689	
冷镦钢盘条 Wire Rod for Cold Heading	Q/BQB 517: SWRCH6A~SWRCH22A SWRCH10K~SWRCH50K SCM435 ML20MnTiB	GB/T6478: M108A1~ML25 M125Mn~ML35Mn ML35CrMo ML20MnTiB	JIS G3507-1: SWRCH6A~SWRCH22A SWRCH10K~SWRCH50K JIS G 4053:SCM435	1005~1050 4137	1005~1050 4137	ASTM A 510	

Sizes and Tolerances

产品规格及偏差

产品规格 Available Sizes

规格范围 Size Range (mm)：5.0-26.0

直径 Diameter			直径 Diameter		
毫米 mm	英寸 inch	(毫米 mm)*	毫米 mm	英寸 inch	(毫米 mm)*
5.0			13.5	17/32	13.49
5.5	7/32	5.56	14.0	35/64	13.89
6.0**	15/64	5.95	14.5**		
6.5			15.0	19/32	15.08
7.0	9/32	7.14	15.5**	39/64	15.48
7.5**	19/64	7.54	16.0		
8.0	5/16	7.94	17.0	43/64	17.07
8.5**			18.0		
9.0	23/64	9.13	19.0	3/4	19.05
9.5**	3/8	9.53	20.0		
10.0	25/64	9.92	21.0	53/64	21.03
10.5**			22.0		
11.0	7/16	11.11	23.0	29/32	23.02
11.5**	29/64	11.51	24.0		
12.0	15/32	11.91	25.0	63/64	25.00
12.5			26.0		
13.0	33/64	13.10			

注 Notes：* 括号内的数值是由相近英寸规格转换成毫米数。
* Figures in parentheses indicate figures converted from inches to mm.
** 如订购这些规格，请先联系确认。
** When ordering these sizes, please contact us.

尺寸允许偏差 Size Tolerances

尺寸允许偏差与宝钢企业标准 Q/BQB 501 相一致。

The size tolerance shall conform to those described in Q/BQB 501.

缺省按 A 级精度交货，可以协商按 B 级精度或 C 级精度交货。

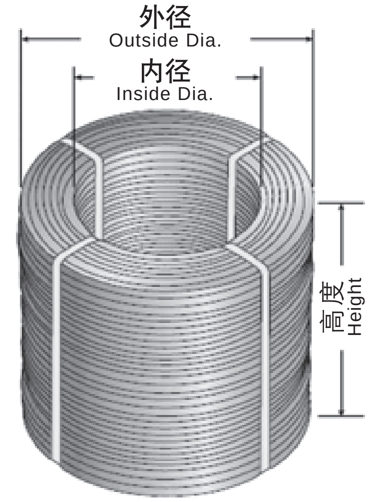
If out of stock, things can be delivered according to A Class tolerances, Sizes manufactured according to B Class tolerances or C Class tolerances are available subject to negotiations.

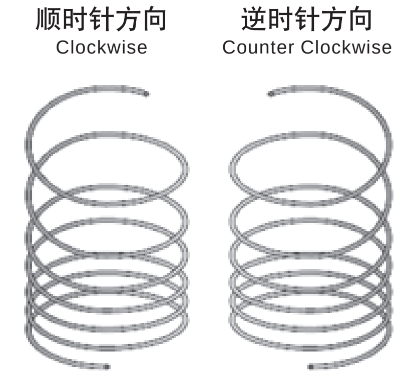
允许偏差 Tolerance Specifications (mm)

直径 Diameter	A级精度 A Class tolerance		B级精度 B Class tolerance		C级精度 C Class tolerance	
	直径允许偏差 Tolerance	不圆度 Out-of-round	直径允许偏差 Tolerance	不圆度 Out-of-round	直径允许偏差 Tolerance	不圆度 Out-of-round
D⩽10.0	±0.30	⩽0.36	±0.20	⩽0.24	±0.15	⩽0.18
10.0<D⩽14.5	±0.40	⩽0.48	±0.25	⩽0.30	±0.20	⩽0.24
14.5<D⩽26.0	±0.50	⩽0.60	±0.30	⩽0.36	±0.25	⩽0.30

卷重范围 Coil Weight Range (kg)：1,900—2,400
盘卷最大外径 Coil Outside Diameter Max. (mm)：1,250
盘卷最小内径 Coil Inside Diameter Min. (mm)：850
线圈旋转方向 Direction of Rotation：Counter Clockwise
盘卷最大高度 Coil Height Max. (mm)：1,800

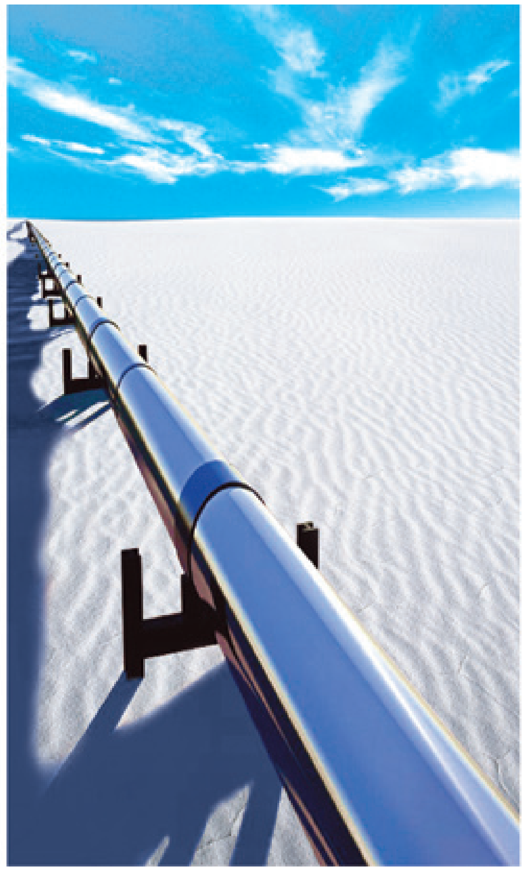
旋转方向 Direction of Rotation





最终用途示例

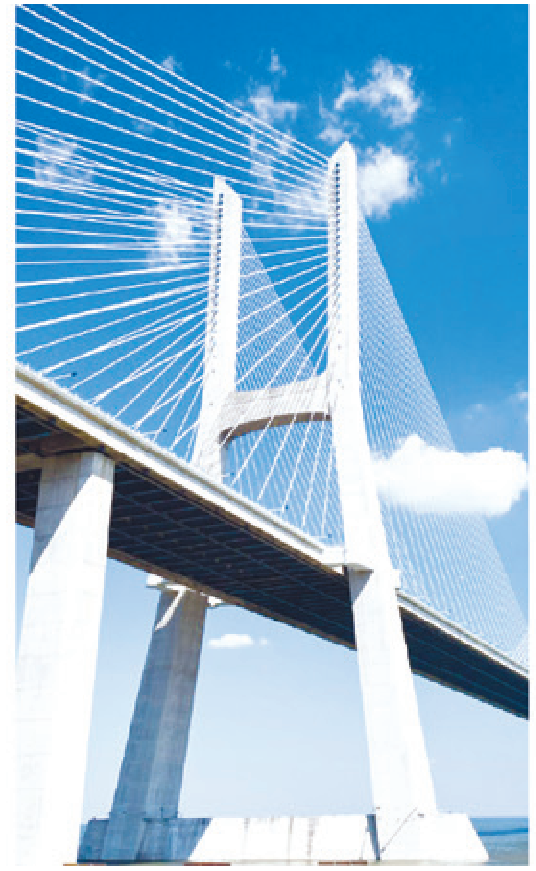
Examples of Final Use



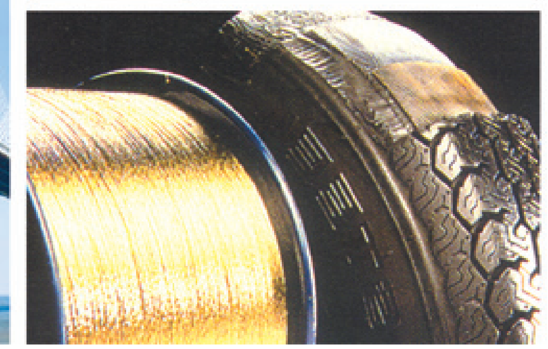


宝钢高线自投产以来，产品已经广泛应用于国家重点建设工程、汽车、油田、矿山及输气管道等。

- 预应力钢丝及钢绞线已应用于上海浦东的磁悬浮工程、秦山核电站、润扬大桥、苏通大桥等国家重点工程建设；
- 冷镦钢已应用于一汽红旗轿车、桑塔纳轿车、二汽汽车等汽车制造用及造桥用螺栓、螺母；
- 焊接用钢已应用于西气东输、南浦大桥、芜湖大桥、证券大厦等重点工程；
- 弹簧钢已应用于轿车及摩托车用弹簧；
- 高碳钢已应用于录井钢丝、电梯钢丝绳、油田用钢丝绳、航空用钢丝绳、矿山用钢丝绳等领域；
- 钢帘线已大批量被国内、国外钢帘线厂使用于子午线轮胎制造。







Since the start of production, Baosteel´s High-speed Wire Rod Mill has got its products widely applied in the state key construction projects, automobile, oil field, ore mine and gas transmission pipeline.

- The prestressed wire rod and strand has used in such state key projects as Shanghai Pudong Maglev, Qinshan Nuclear Power Station, Runyang Bridge and Sutong Bridge.
- The cold heading steel products have been made as bolt and nut supplied to First Automobile Corp, Volk Wagon and Second Automobile Corp for car manufacturing and to the bridge construction.
- The welding steel wire rod has used in the key construction project:"gas transmission from west to east" , Nanpu Bridge, Wuhu Bridge and Securities Buildings.
- Spring steel wire rod has been used for automobile suspension system or valves.
- High carbon steel wire rod has been widely used for all kind of wires and ropes for oil field, elevator, mine and aviation.
- Wire rod for tire cord has been used to reinforce the durability of automobile tires by many famous manufacturers such as Bekaert and Michelin.

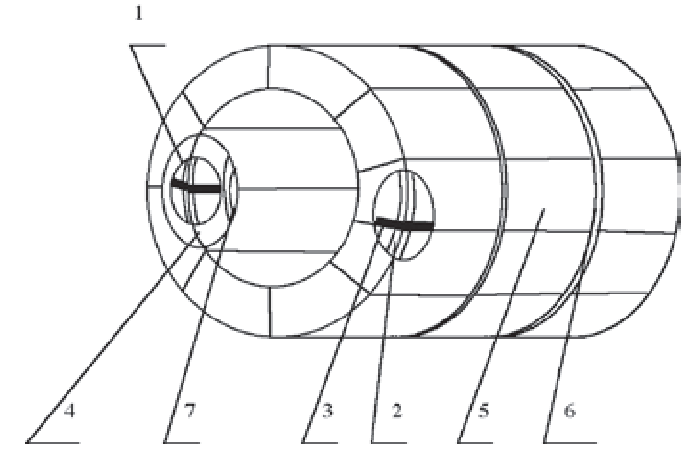
Packaging and Marking

包装与标志

1.1、包装标准 Packaging Specifications

包装类型 Packaging Type	包装方式基准 Basis for Packaging	包装材料追加组合 Additional Material Mix for Packaging					推荐范围 Recommended Applications
	0	1	3	5	6	7	
A 普通包装 Normal Packaging	盘条 + 径向捆带（4道） Wire Rod + Steel Bands (4 Bands at 4 positions)	+纸护角 +pasteboard for side-ring protection	+覆膜编织带 +precoated braid	+纸护角 +覆膜编织带 +pasteboard for side-ring protection +precoated braid	+纸护角 +防锈纸 +薄膜 +pasteboard for side-ring protection +rust-proofing paper +adhesive membrane	+覆膜编织带 +薄膜 +precoated braid +adhesive membrane	短途、中途及一般用途产品 For short distance transportation or for general purposed products
B 加强包装 Reinforced Packaging	盘条 + 径向捆带（4处8道） Wire Rod + Steel Bands (8 Bands at 4 positions)	+纸护角 +pasteboard for side-ring protection	+覆膜编织带 +precoated braid	+纸护角 +覆膜编织带 +pasteboard for side-ring protection +precoated braid	+纸护角 +防锈纸 +薄膜 +pasteboard for side-ring protection +rust-proofing paper +adhesive membrane	+覆膜编织带 +薄膜 +precoated braid +adhesive membrane	出口、中途、远途及高附加值产品 For export,long distance transportation or for high value-added products

1.2、包装示意图 Packaging Descriptions



1, 2 －纸护角 Pasteboard for Side-Ring Protection　3－捆带 Flat Steel Band　4－防锈纸 Rust-Proofing Paper
5－覆膜编织带或薄膜 Precoated Braid or Adhesive Membrane　6, 7 －胶带 Adhesive Tape

1.3、典型包装样式 Examples of Typical Packaging Type



A6 A1

A3 A7

1.4、标牌 Tag



Certifications

认证







Certificate of Registration

QUALITY MANAGEMENT SYSTEM-ISO 9001:2000

This is to certify that:

Baoshan Iron & Steel Co., Ltd.
Fujin Road
Baoshan District
Shanghai
201900
China

Holds Certificate No: FM 70107

and operates a Quality Management System which complies with the requirements of ISO 9001:2000 for the following scope:

The design and manufacture of steel products (including steel sheet, steel coils, billet, tube blank, hot and cold rolled sheet coils, seamless tubes, welded tubes, electric steel and heavy plate) for various application to customer's requirements.
The manufacture of iron and conversion to steel ingots & slabs.
The conversion of slabs to hot rolled sheet & coils.
The cold processing of sheet and coils including galvanizing and color coating.
The conversion of tube blanks to seamless tubes including pipe couplings & tool joints.

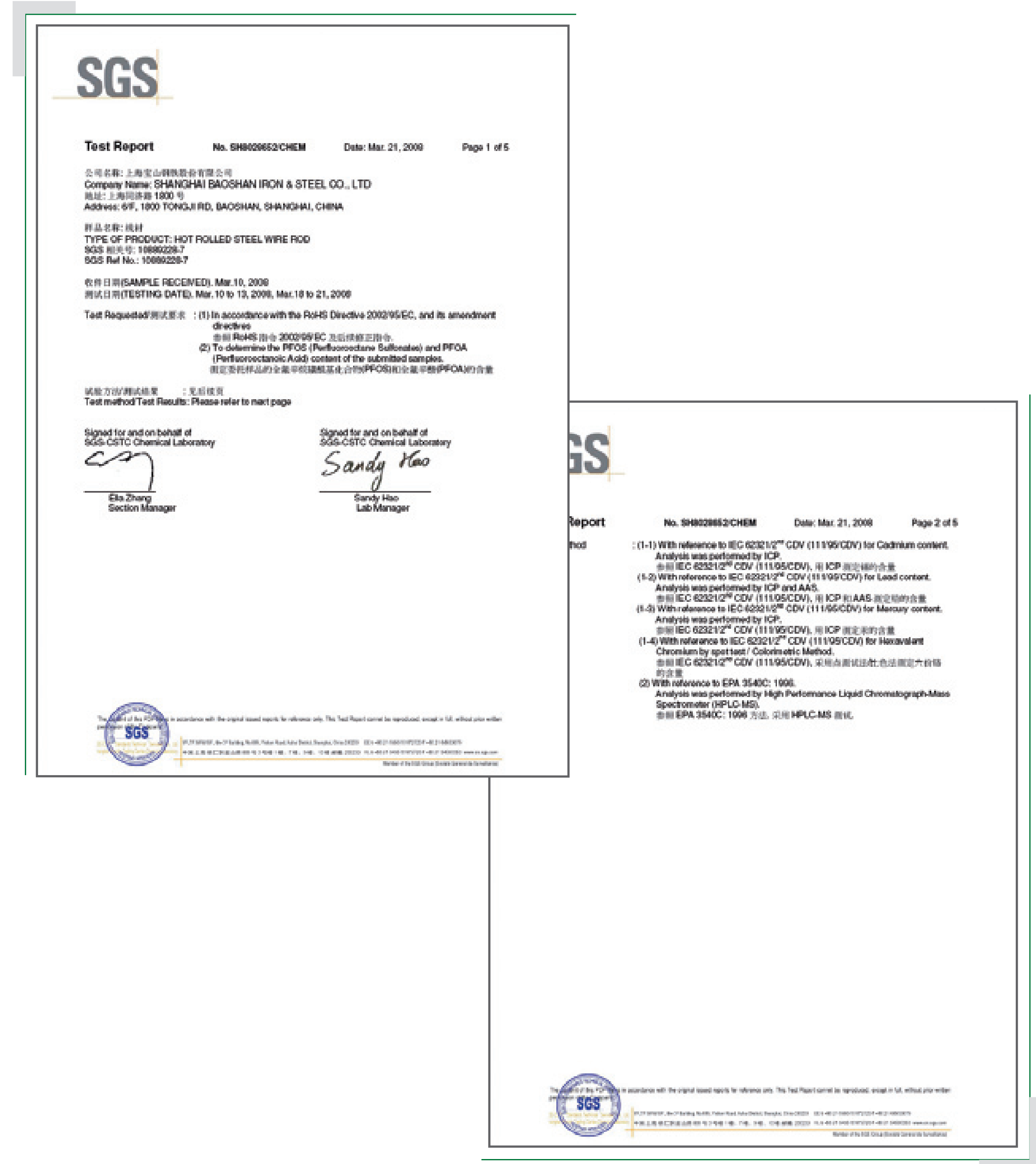
For and on behalf of BSI:

Managing Director, BSI Management Systems (China), Liu Mo Yuan

Originally registered: 07/10/2002 Latest issue: 26/01/2007

Page: 1 of 2

BSi Management Systems



SGS

Test Report No. SH8029652/CHEM Date: Mar. 21, 2008 Page 1 of 5

Company Name: SHANGHAI BAOSHAN IRON & STEEL CO., LTD
Address: 6/F, 1800 TONGJI RD, BAOSHAN, SHANGHAI, CHINA

TYPE OF PRODUCT: HOT ROLLED STEEL WIRE ROD

Test Requested : (1) In accordance with the RoHS Directive 2002/95/EC, and its amendment directives
(2) To determine the PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid) content of the submitted samples.

Test method/Test Results: Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory
Ella Zhang
Section Manager

Signed for and on behalf of SGS-CSTC Chemical Laboratory
Sandy Hao
Lab Manager

宝山钢铁股份有限公司
http://www.baosteel.com

BAOSHAN IRON & STEEL CO.,LTD.
http://www.baosteel.com

销售中心
Sales Center
地址:上海宝山同济路1800号
邮编:201900
电话:021-26645369
传真:021-26649555

宝钢服务热线
Baosteel Service Hot-line
800-820-8590
021-26648888

宝钢在线
http://www.baosteel.net.cn

国内贸易分公司

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传真：021-68404618

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电话：020-38730020
传真：020-38730037

天津宝钢北方贸易有限公司
电话：022-84905800（转）
传真：022-84905806

成都宝钢西部贸易有限公司
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传真：022-85335680

武汉宝钢华中贸易有限公司
电话：027-84298800
传真：027-84298224

上海宝钢商贸有限公司
电话：021-56121212（转）
传真：021-56126584

上海宝钢浦东国际贸易有限公司
电话：021-36014655（转）
传真：021-51266522 51266533

上海宝钢宝山钢材贸易有限公司
电话：021-36014688（转）
传真：021-51266500

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FAX: 0081-3-3237-9203

宝和通商首尔事务所
HOWA TRADING CO., LTD., SEOUL OFFICE
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FAX: 0082-2-5080891

宝钢澳大利亚贸易有限公司
BAO AUSTRALIA PTY LTD
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FAX: 0061-8-94810536

宝钢新加坡贸易有限公司
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FAX: 0034-93-4119330

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FAX: 00971-4-8810789

宝钢意大利钢材集散中心有限公司
BAOSTEEL ITALIA DSTRIBYTION CENTTER SPA
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FAX: 0039-010-5308874

美洲地区 America

宝钢美洲贸易有限公司
BAOSTEEL AMERICA INC.
TEL: 001-201-4571144
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HOUSTON REPRESENTATIVE OFFICE
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FAX: 001-281-4842655

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FAX: 001-949-7521234

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CANADA REPRESENTATIVE OFFICE
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FAX: 001-905-2722407

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BAOSTEEL DO BRAZIL LTDA.
TEL: 0055-21-25311363
FAX: 0055-21-25310298

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